

CLAIMS

1. Improved sealing cap in particular for a collector tube in an air-conditioning unit for vehicles suitable for being axially inserted in a cylindrical portion (11) at an end of said collector tube, characterised in that it comprises at least two moulded elements able to be coupled (12, 13, 22), a first (12) of said at least two elements being equipped with a portion (16) with the same diameter as the collector and at least one portion with a smaller diameter (17, 21) suitable for stably receiving a second element (13, 22) to define at least one seat (15, 150) for a sealing ring (14), which is realised with the coupling of said at least two elements, said portion with a smaller diameter (17, 21) defining a base of said seat (15, 150), a side surface (19, 28) of said second element (13, 22) and a side surface (20, 29) of said portion with the same diameter as the collector (16) respectively defining sides of said seat (15, 150).
2. Cap according to claim 1, characterised in that it comprises a third moulded element able to be coupled (13, 22), said first element (12) or else said third further element (13, 22) being equipped with a further portion (17, 21) with a smaller diameter, suitable for defining a second further seat (15, 150)

for a sealing ring (14), which is realised with the stable coupling of said elements (12, 13, 22), said second portion with a smaller diameter (17, 21) defining a base of said second seat (150), a side  
5 surface (19, 28) of said third element (13, 22) and a side surface (20, 29) of said portion with the same diameter as the collector (16) respectively defining sides of said further seat (15, 150).

3. Cap according to claim 1, characterised in that said  
10 at least one portion with a smaller diameter (17, 21) forming said base of said at least one seat (15, 150) for a sealing ring (14) has a high surface finish.

4. Cap according to claim 1, characterised in that said  
15 at least one portion with a smaller diameter (17, 21) extends in a further portion (18, 23) which realises attachment means.

5. Cap according to claim 4, characterised in that said attachment means comprise a recessed throat (18) suitable for receiving an element that can be coupled  
20 (13) with pressure.

6. Cap according to claim 4, characterised in that said attachment means comprise a tubular body (23) carrying at least one attachment tooth (24) on the outside for the engagement with at least one matching  
25 element (27).

7. Cap according to claim 6, characterised in that said

third moulded element (22) which can be coupled with  
said first element (12) comprises an annular portion  
with the same diameter as the collector (25) and at  
least one hollow tubular portion (26), suitable for  
5 receiving said tubular part (23) of the first element  
(12), equipped with said at least one element (27)  
matching said at least one attachment tooth (24)  
suitable for snap engaging.

8. Cap according to claim 2, characterised in that said  
10 first element (12) comprises two portions with a  
smaller diameter (17, 21) on opposite sides of said  
portion with the same diameter as the collector (16),  
in which said portions with a smaller diameter (17,  
21) each extend in attachment means (18, 23) for the  
15 stable connection with a second element (13) and with  
a third element (22).

9. Cap according to claim 1, characterised in that said  
first moulded element (12) is internally hollow and  
equipped in said recess (32) with at least one  
20 transversal wall (33), protruding at one end to form  
a gripper tab (34).

10. Cap according to claim 1, characterised in that said  
second moulded element which can be coupled with said  
first element (12) is a ring (13) with the same  
25 diameter as the collector.

11. Cap according to claim 2, characterised in that said

third element (22) is moulded integrally with a spacer shaft (30) suitable for being connected to a filtering cartridge.

12.Cap according to claim 2, characterised in that said  
5 third element (22) is equipped with an element (31) for connection to accessories.